

## 09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UT

LOCATION.--Lat 37°11'22", long 113°46'02", in NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 28, T. 41 S., R. 17 W., Washington County, Hydrologic Unit 15010008, on right bank 1,100 ft downstream from Winsor Dam, 0.6 mi northwest of Shivwits Indian Village, and 7.5 mi northwest of Santa Clara.

DRAINAGE AREA.--378 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1971 to September 2001 (discontinued).

REVISED RECORDS.--WDR UT-73-1:1972(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,210 ft above sea level, from topographic map. Prior to March 29, 1988, at several sites upstream and downstream at different datums.

REMARKS.--Records good except for daily discharges less than 2.0 ft<sup>3</sup>/s, which are poor. Flow regulated by Gunlock Reservoir. Several diversions upstream for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,460 ft<sup>3</sup>/s, Mar 12, 1995, gage height, 20.17 ft, from rating curve extended above 1,300 ft<sup>3</sup>/s on basis of slope-area measurement; no flow several days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 5,850 ft<sup>3</sup>/s, flood of 1938 (exact date unknown), gage height, 7.90 ft (datum then in use), from slope area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 84 ft<sup>3</sup>/s, Oct 30, gage height, 11.74 ft; minimum, no flow on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.01	.19	1.1	8.8	3.9	17	12	13	11
2	.00	.00	.00	.00	.20	1.1	8.3	7.5	16	12	12	12
3	.00	.00	.00	.01	.17	.98	8.9	9.6	16	11	12	11
4	.00	.00	.00	.01	.15	.87	8.7	11	15	11	12	11
5	.00	.00	.00	.03	.15	.98	8.8	12	15	13	11	10
6	.00	.00	.00	.03	.14	.67	6.9	11	13	14	11	5.5
7	.00	.00	.00	.04	.12	.82	6.2	10	12	14	11	3.2
8	.00	.00	.00	.02	.17	.57	6.2	9.7	12	13	11	4.2
9	.00	.00	.00	.03	.21	.67	6.0	11	12	13	12	8.9
10	.16	.00	.00	.02	.19	2.0	6.3	14	13	13	12	10
11	.00	.01	.00	.11	.16	1.1	6.4	13	12	12	12	10
12	.00	.00	.01	.07	.16	1.0	6.1	14	13	12	12	10
13	.00	.00	.00	.05	.16	.88	6.2	14	15	13	12	10
14	.00	.00	.00	.06	.17	.80	5.6	14	16	14	11	9.7
15	.00	.00	.00	.06	.15	4.5	5.2	14	18	17	10	9.5
16	.00	.00	.00	1.6	.16	6.3	4.6	13	18	16	9.9	9.3
17	.00	.00	.00	2.1	.18	6.3	4.8	14	16	12	10	9.2
18	.00	.00	.00	2.0	.16	6.0	6.9	15	14	12	10	9.2
19	.00	.00	.01	1.5	.16	5.5	7.7	15	15	11	10	9.2
20	.00	.00	.01	1.5	.17	4.9	8.3	15	15	10	12	9.4
21	.00	.00	.01	1.8	.18	4.9	9.0	24	15	11	12	9.5
22	.00	.00	.01	2.3	.18	4.8	8.7	31	15	11	12	9.7
23	.02	.00	.01	2.8	.20	5.0	8.0	30	15	13	12	10
24	.00	.00	.01	2.2	.28	7.1	7.5	22	14	13	11	10
25	.00	.00	.00	1.7	.34	9.1	7.1	21	14	12	10	11
26	.00	.00	.00	1.5	.38	10	7.0	17	15	13	9.8	11
27	.85	.00	.00	1.4	.34	10	6.1	16	16	12	11	11
28	.00	.00	.00	1.2	1.4	10	4.8	17	14	11	11	10
29	.00	.00	.00	3.2	---	10	4.7	19	14	11	11	9.9
30	3.6	.00	.01	1.8	---	10	4.4	17	13	12	11	9.5
31	.00	---	.01	.25	---	9.0	---	15	---	13	11	---
TOTAL	4.63	0.01	0.09	29.40	6.62	136.94	204.2	469.7	438	387	347.7	283.9
MEAN	.15	.000	.003	.95	.24	4.42	6.81	15.2	14.6	12.5	11.2	9.46
MAX	3.6	.01	.01	3.2	1.4	10	9.0	31	18	17	13	12
MIN	.00	.00	.00	.00	.12	.57	4.4	3.9	12	10	9.8	3.2
AC-FT	9.2	.02	.2	58	13	272	405	932	869	768	690	563

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

	MEAN	3.50	5.23	3.58	12.6	31.7	50.0	43.5	38.2	33.5	17.9	14.9	10.3
MAX	27.1	43.6	35.2	158	366	260	169	157	168	168	46.2	33.9	29.1
(WY)	1984	1984	1984	1980	1980	1995	1978	1973	1983	1983	1980	1980	1980
MIN	.000	.000	.000	.000	.000	.14	6.08	5.06	8.03	.90	.33	.000	.000
(WY)	1978	1978	1991	1975	1975	1977	1977	1991	1990	1990	1990	1977	1977

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1973 - 2001	
ANNUAL TOTAL	2089.67		2308.19			
ANNUAL MEAN	5.71		6.32		22.0	
HIGHEST ANNUAL MEAN					90.1	
LOWEST ANNUAL MEAN					3.76	
HIGHEST DAILY MEAN	21 May 9		31 May 22		1530 Mar 3 1983	
LOWEST DAILY MEAN	.00 Aug 23		.00 Oct 1		.00 Oct 8 1972	
ANNUAL SEVEN-DAY MINIMUM	.00 Sep 2		.00 Oct 1		.00 Oct 8 1972	
ANNUAL RUNOFF (AC-FT)	4140		4580		15940	
10 PERCENT EXCEEDS	15		14		47	
50 PERCENT EXCEEDS	1.2		6.0		11	
90 PERCENT EXCEEDS	.00		.00		.00	